A Team Based Approach to Improving Hypertension Care

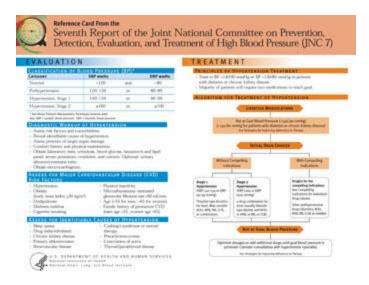
May 1, 2013 CVH & Diabetes Program Stakeholder Meeting

Patricia Ward Libby Collet



Theme: Hypertension

Diagnosis: For newly diagnosed patients the requirement set forth in the JNC7 guidelines will be followed



The classification is based on the average of two or more properly measured, seated, BP readings on each of two or more office visits.



Theme: Improving Hypertension Care

"In today's world every health care professional really has two jobs – doing the work and improving the work." 1

Global Aim: We aim to improve cardiovascular health outcomes in Pod 7-4. The process begins with the first blood pressure taken. The process ends with the patient's transfer out of the practice or death.

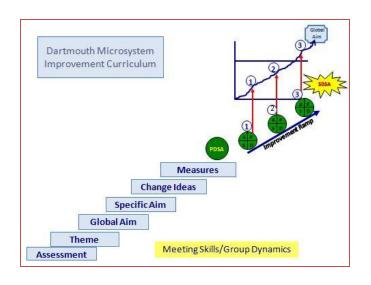
1. Quality By Design: A Clinical Microsystems Approach edited by Eugene C. Nelson, Paul B. Batalden, Marjorie M. Godfrey, 2007



Dartmouth Microsystem Tools

 Applying improvement science to develop a team based approach to improving clinical outcomes for patients with hypertension.

Microsystem tools were selected based in part on the premise that asking the people who do the work to improve the work leads to reliable improvement.





Pre Phase Included

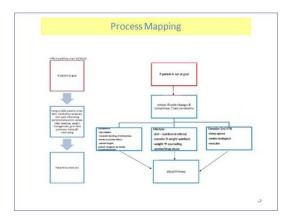
| ☐ Team selection | Assess the context |
|---------------------------|--------------------|
| ☐ Implement meeting tools | Preliminary data |
| ☐ Guiding principles | Clarity of aim |
| | Logistics |

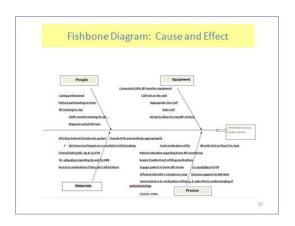
| HTN 1 Team | Role | Advisory Members | Role |
|-----------------|------------------------------|------------------|---|
| Peter Emery, MD | Team Leader | Barbara Coulombe | Sr. Healthcare Analyst |
| | Internal Medicine | Jeanne Place | Central Intake Manager |
| Sarah Rogan | Medical Assistant | Anne Hindley | Payer Issues Expert |
| Sarah Anania | Medical Assistant | Paul McGrath, MD | Cardiologist |
| Allison James | Medical Assistant | Elizabeth Foley | ME CDC Cardiovascular Health Specialist |
| Patty Ward | Clinical Quality Coordinator | Susan Quimby | Nutritionist / Nutrition Works Owner |
| Libby Collet | Microsystem Coach | | |
| | | | |



Action Phase Included

- ☐ Drafting a global aim
- ☐ Change concepts
- Process mapping
- Creating a fishbone diagram
- Developed a specific aim
- ☐ Plan * Do * Study * Act
- ☐ Group dynamics
- Measurement
- ☐ Celebrate successes
- Sustainability





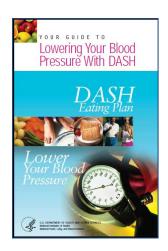


First Test of Change: Patient Education Materials

Specific Aim: We will increase the number of patients who receive effective patient education materials by distribution by care team of approved hypertension patient education tools (to include video link) to 3 patients per provider per week for the next month, including a request for feedback. We will have 15% of patients who are surveyed indicate in a follow up communication that they received information that was of value to them.



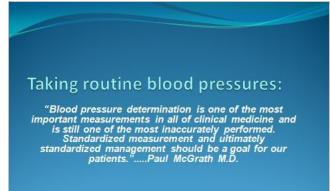




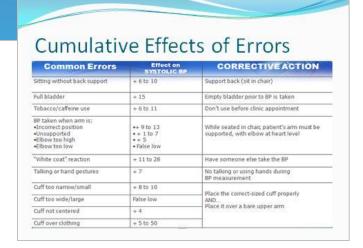
78% of the patients contacted found value in the information provided.



Shift In Focus to Accuracy of Measurement

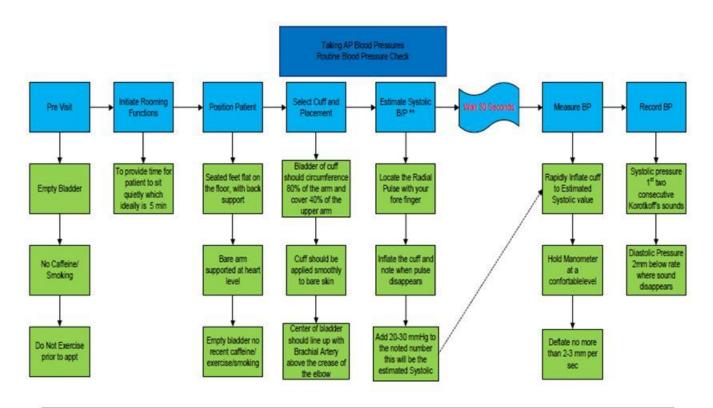








Spread Throughout the Practice



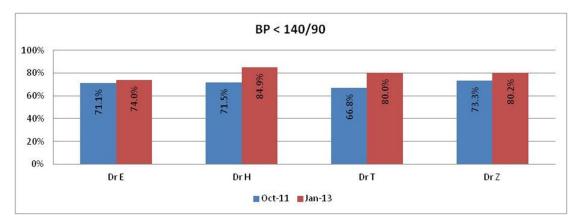
** Estimating Systolic BiP is important to get the most accurate BiP reading by avoiding the auscultatory gap. An auscultatory gap also called as silent gap is the interval of pressure where korotkoff sounds indicating true systolic pressure fade away and reappear at a lower pressure point during the manual measurement of blood pressure by auscultatory method. The auscultory gap occurs when the first Korotkoff sound fades out for about 20-50 mmHg only to return. It can result in following emoneous blood pressure reading: Underestimation of systolic blood pressure or Overestimation of diastolic blood pressure



Change in Clinical Outcomes

The overall AIM of the pilot is to improve cardiovascular health outcomes. The data below suggests that we are moving in that direction.

- The percent of patients with hypertension with a recent blood pressure measurement of < 140/90 has increased from 71.5% at the start of the pilot to 79.4% in March 2013.
- The percent of patients with hypertension with a recent blood pressure measurement > 160/100 has decreased from 3.5% at the start of the pilot to 1.4% in March 2013.



We will continue to track the data once the training is complete, to confirm that the nature of any inaccuracy in the baseline data was not such as to negate the significance of the trend. We have found no indication that the bias results in a higher or lower overall population measure.



Ongoing Areas of Focus

- Pharmacy Integration
 - Pharmacists on Team
 - MTM Pilot
 - Outreach Letter
 - Office SystemCommunicationReview

- Nutrition Integration
 - Nutritionist on Team
 - NutritionPresentation
 - Referral Pilot
 - Outreach Letter
 - Developing Nutrition
 Tips for Data Wall and
 Newsletter

